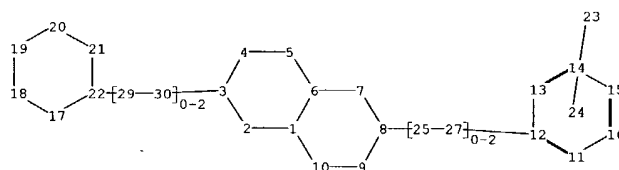


*check*  
US 6793984



chain nodes :

23 25 27 29 30

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  
22

chain bonds :

3-30 8-25 12-27 22-29 25-27 29-30

ring bonds :

1-2 1-6 1-10 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 11-12 11-16  
12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22

exact/norm bonds :

1-2 1-6 1-10 2-3 3-4 3-30 4-5 5-6 6-7 7-8 8-9 8-25 9-10 12-27  
17-18 17-22 18-19 19-20 20-21 21-22 22-29 25-27 29-30

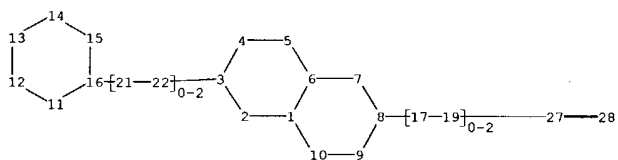
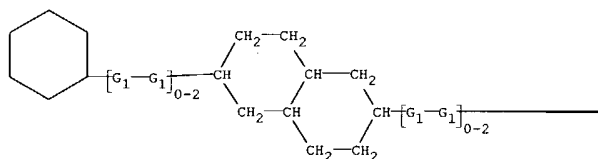
normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

G1:C,O

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom  
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:CLASS  
27:CLASS 29:CLASS 30:CLASS



chain nodes :

17 19 21 22 27 28

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

chain bonds :

3-22 8-17 16-21 17-19 19-27 21-22 27-28

ring bonds :

1-2 1-6 1-10 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 11-12 11-16  
12-13 13-14 14-15 15-16

exact/norm bonds :

1-2 1-6 1-10 2-3 3-4 3-22 4-5 5-6 6-7 7-8 8-9 8-17 9-10 11-12  
11-16 12-13 13-14 14-15 15-16 16-21 17-19 19-27 21-22

exact bonds :

27-28

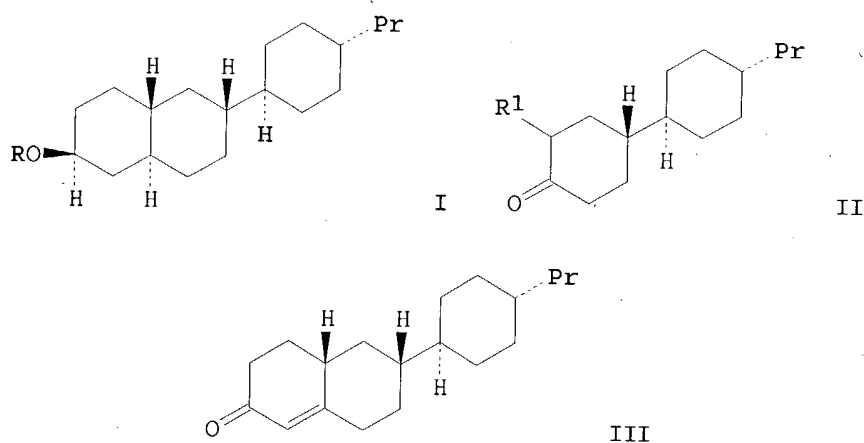
G1:C,O

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS  
19:CLASS 21:CLASS 22:CLASS 27:CLASS 28:CLASS

AN 1983:197652 CAPLUS  
 DN 98:197652  
 ED Entered STN: 12 May 1984  
 TI Some novel liquid crystalline perhydro-6-cyclohexyl-2-naphthalenol derivatives  
 AU Sucrow, Wolfgang; Wolter, Herbert  
 CS Fachbereich Chem., Univ. Paderborn, Paderborn, D-4790, Fed. Rep. Ger.  
 SO Chimia (1982), 36(12), 460-2  
 CODEN: CHIMAD; ISSN: 0009-4293  
 DT Journal  
 LA English  
 CC 24-7 (Alicyclic Compounds)  
 Section cross-reference(s): 75  
 GI

*compound of iten*  
*i.*



AB Perhydronaphthol derivs. I (R = alkyl, acyl) were prepared Thus, cyclohexanone II (R1 = H) was converted to its morpholine enamine which was alkylated with MeCOCH:CH<sub>2</sub> and hydrolyzed, forming II (R1 = CH<sub>2</sub>CH<sub>2</sub>COMe) as a 95:5 equatorial-axial mixture The diketone was cyclized with NaOMe to form cyclohexanone III, which yielded I (R = H) upon repeated Birch reduction Alkylation or acylation of I (R = H) gave I (R = alkyl, acyl), whose phase transitions and nematic ranges are given.

ST liq crystal perhydronaphthol prepn; nematic perhydronaphthol ether ester  
 IT Liquid crystals  
 (cyclohexylperhydronaphthyl esters and ethers)  
 IT 20763-19-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (Wittig reaction of, with perhydronaphthalene derivative)  
 IT 85603-98-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and Wittig reaction of, with methoxymethylenetriphenylphosphorane)  
 IT 85603-77-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and alkylation or acylation of)  
 IT 85603-75-4P 85647-80-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 IT 85603-78-7P 85603-79-8P 85603-80-1P 85603-81-2P 85603-82-3P

85603-83-4P 85603-84-5P 85603-85-6P 85603-86-7P 85603-87-8P  
 85603-88-9P 85603-89-0P 85603-90-3P 85603-91-4P 85603-92-5P  
 85603-93-6P 85603-94-7P 85603-95-8P 85603-96-9P **85603-97-0P**  
 85649-32-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and liquid crystal properties of)

IT 85603-76-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reduction of)

IT 85603-99-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

IT 98790-23-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation, alkylation, and hydrolysis of)

IT 78-94-4, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with cyclohexylcyclohexanone enamine)

IT 82832-73-3

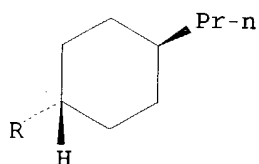
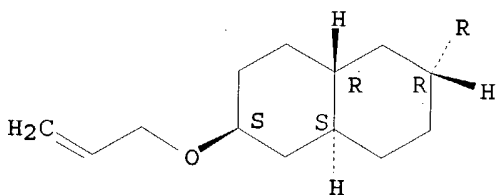
RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with morpholine)

IT **85603-97-0P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and liquid crystal properties of)

RN 85603-97-0 CAPLUS

CN Naphthalene, decahydro-2-(2-propenyloxy)-6-(4-propylcyclohexyl)-,  
 [2 $\alpha$ ,4 $\alpha$ ,6 $\beta$ (trans),8 $\alpha$ ]- (9CI) (CA INDEX NAME)



Relative stereochemistry.